Application/Control No.

Applicant(s)/Patent Under Reexamination MILLS, RANDELL L.

Examiner

Wayne A. Langel

Art Unit 1754

Page 1 of 8

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classi	fication
	Α	US				
	В	US				
	С	US				
	D	US				
	E	US				
	F	US				
	O	US				
	Н	US				
	_	US				
	J	US				-
	К	US				=
	L	US				.,
	М	US				

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	0	-				*
	Р					
	Q					
	R	<u>-</u>				
	S				, ·	
	Т					

NON-PATENT DOCUMENTS

Γ.	T	
*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
A	U	Arfken, G. (1970) Mathematical Methods For Physicists, 2nd ed., Academic Press, New York.
A	v	Baard, E. (1999) Dow Jones Newswires, October 6 reprint.
A	w	Bethe, H. A. and Salpeter, E. E. (1977) Quantum Mechanics Of One- And Two-Electron Atoms, Plenum Publishing Corporation, New York
B	x	Feynman, R. P., Leighton, R. B. and Sands, M. (1965) The Feynman Lectures On Physics, vol. III, Quantum Mechanics, Addison-Wesley Publishing Company, Reading, Massachusetts.

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Application/Control No. 50/62/

Applicant(s)/Patent Under Reexamination MILLS, RANDELL L.

Examiner

Langel

Art Unit

Page 2 of 8

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	Α	US			-
	В	US			
	С	US			
	D	US			
	E	US			
	F	US			
	G	US			
	н	US			
	ı	US			
	J	US			
	К	US			
	L	US			
	М	US			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind	Date MM-YYYY	Country	Name	Classification
	N					
	0					
	P					
	Q					
	R					
	s			- "		
	Т					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
A	U	Fine, A. (1986) The Shaky Game: Einstein, Realism, and the Quantum Theory, 2nd ed., The University of Chicago Press, Chicago.
A	٧	Hansen, L. D. et al. (1995) "Faradaic efficiencies less than 100% during electrolysis of water can account for excess heat in "cold fusion" cells," Journal of Physical Chemistry, vol. 99, no. 18, pp. 6973-6979 (Paper I).
A	w	Hansen, L. D. et al. (1997) "An assessment of claims to 'excess heat' in 'cold fusion' calorimetry," Thermochimica Acta, vol. 297, pp. 7-15 (Paper II).
*	×	Hansen, L. D. et al. (1998) "A response to hydrogen + oxygen recombination and related heat generation in undivided electrolysis cells," Journal of Electroanalytical Chemistry, vol. 447, pp. 225-226 (Paper III).

*A copy of this reference is not being furnished with this Office action. (See MPEP, § 707.05(a).)

Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Application/Control No.

Applicant(s)/Patent Under Reexamination MILLS, RANDELL L.

Examiner

Lange (

Art Unit 1754

Page 3 of 8

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classif	ication
	Α	US				
	В	US				
	С	US				
	D	US			·	
	E	US				
	F	US				
	G	US				
	Η	US				
	1	US				
	J	US				
	К	US				
	L	US				
	М	US		·		

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	Ν					
	0					
	Р					
	Q					
	R					
	s					
	Т					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	Hayashi, S. et al. (1997) "Accurate determination of 1H Knight shifts in Mg2NiHx and MgHx by means of high-speed magic angle spinning," Journal of Alloys and Compounds, vol. 248, pp. 66-69 (Paper A).
A	V	Hayashi, S. et al. (1997) "1H NMR and magnetization measurements of a nanostructured composite material of the Mg2Ni-H system synthesized by reactive mechanical grinding," Journal of Alloys and Compounds, vol. 256, pp. 159-165 (Paper B).
X	w	Hayashi, S. et al. (1997) "Local structures and hydrogen dynamics in amorphous and nanostructured Mg-Ni-H systems as studied by 1H and 2H nuclear magnetic resonance," Journal of Alloys and Compounds, vol. 261, pp. 145-149 (Paper C).
A	х	Heisenberg, W. (1927) "Über den anschaulichen Inhalt der quantentheoritischen Kinematik und Mechanik," Zeitschrift für Physik, vol. 43, pp. 172-198. (For an English translation of this paper see Wheeler and Zurek (1983) cited below.)

*A copy of this reference is not being furnished with this Office action. (See MPEP, § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

. / .		Notice of Reference	5	on/Control No.	Reexaminat MILLS, RAN	/Patent Unde ion IDELL L.	r	
		Notice of Reference	Examine	Examiner Art Unit		Page 4 of 8		
/				J.S. PATENT DOC	CUMENTS			
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY		Name		Class	ification
	Α	US						
	В	US		 ·	-			
	С	US		7				
	D	US						
	Е	US						
	F	US						
	G	US			•			
	Н	US						
	1	US						
	J	US		W A				
	к	US						
	L	US						
	М	US						
7			FOR	REIGN PATENT D	OCUMENTS			
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Nam	ne	Classi	fication
	N							
	0			W				
	Р							
	Q							1.
	R							
	S	-, -						
	Т							
			N	ON-PATENT DOC	UMENTS			
*		Includ	le as applicable: Au	thor, Title Date, Pu	ublisher, Edition or Volum	e, Pertinent Pages)	

U Heitler, W. (1984) The Quantum Theory Of Radiation, 3rd ed., Dover Publications, Inc., New York.

V Jackson, J. D. (1975) Classical Electrodynamics, 2nd ed., John Wiley and Sons, New York.

W Jeffreys, H. and Jeffreys, B. S. (1950) Methods Of Mathematical Physics, Cambridge University Press, Great Britain.

X Kleppner, D. and Jackiw, R. (2000) "One Hundred Years of Quantum Physics," Science, vol. 289, pp. 893-898.

*A copy of this reference is not being furnished with this Office action. (See MPEP, § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Notice	of Ro	ferences	Citod
NULLE	ui ke	ierences	Gilea

Application/Control No.

Applicant(s)/Patent Under Reexamination MILLS, RANDELL L.

Art Unit

Page 5 of 8

U.S. PATENT DOCUMENT

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	Α	US			
	В	US			
	С	US			
	D	US			
	Ε	US			
	F	US	·		
	G	US			
	Н	US			
-	ı	US			
	J	US			*
	к	US			
	L	US			
	М	US			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification		
	N							
	Ō							
	Р							
	Q							
	R							
	s							
	Т							

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
A	U	Kolos, W. and Roothaan, C. C. J. (1960) "Accurate Electronic Wave Functions for the H2 Molecule," Reviews of Modern Physics, vol. 32, no. 2, pp. 219-232.
1	V	Kolos, W. and Wolniewicz, L. (1964) "Accurate Adiabatic Treatment of the Ground State of the Hydrogen Molecule," Journal of Chemical Physics, vol. 41, no. 12, pp. 3663-3673 (Paper I).
Ø	w	Kolos, W. and Wolniewicz, L. (1968) "Improved Theoretical Ground-State Energy of the Hydrogen Molecule," Journal of Chemical Physics, vol. 49, no. 1, pp. 404-410 (Paper II).
**	x	Margenau, H. and Murphy, G. M. (1943) The Mathematics Of Physics And Chemistry, D. Van Nostrand Company, New York.

*A copy of this reference is not being furnished with this Office action. (See MPEP, § 707.05(a).)

Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

/		Notice of References Cited			- / 65- /	WILLS, KANDEL	.L L.					
/		House of Melerenees often		Examine	Lange (Art Unit	Page 6 of 8					
					-angel	1754	l age o or o					
	U.S. PATENT DOCUMENTS											
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY		Name		Classification					
	Α	US										
	В	US										
	С	US										
	D	US										
	E	US										
	F	US		*								
	G	US										
	Н	US										
	1	US										
	J	US										
	к	US										
	L	US										
	М	US										
				FOREIGN PATENT D	OCUMENTS							
1 1		Document Number	Date	ľ		Classification						
*		Country Code-Number-Kind Code	MM-YYYY	Country	Name	,	Classification					
*	N			Country	Name)	Classification					
*	N O	Country Code-Number-Kind Code		Country	Name		Classification					
*		Country Code-Number-Kind Code		Country	Name		Classification					
*	0	Country Code-Number-Kind Code		Country	Name		Classification					
*	О Р	Country Code-Number-Kind Code		Country	Name		Classification					
*	O P Q	Country Code-Number-Kind Code		Country	Name		Classification					
*	O P Q R	Country Code-Number-Kind Code		Country	Name		Classification					
*	O P Q R S	Country Code-Number-Kind Code		NON-PATENT DOC			Classification					
*	O P Q R S	Country Code-Number-Kind Code	MM-YYYY	NON-PATENT DOO			Classification					
	O P Q R S	Country Code-Number-Kind Code	MM-YYYY de as applicable	NON-PATENT DOO:: Author, Title Date, Po	CUMENTS ublisher, Edition or Volume		Classification					
	O P Q R S T	Country Code-Number-Kind Code Include	de as applicable	NON-PATENT DOO :: Author, Title Date, Po ., John Wiley & Sons	CUMENTS ublisher, Edition or Volume s, New York.	, Pertinent Pages)						
	O P Q R S T U	Country Code-Number-Kind Code Include Merzbacher, E. (1961) Quantum	de as applicable um Mechanics Mechanics, vo	NON-PATENT DOO : Author, Title Date, Po , John Wiley & Sons	CUMENTS ublisher, Edition or Volume s, New York. Publishing Co., Amsterda	, Pertinent Pages) am and John Wiley 8	& Sons, New York.					

Application/Control No.

Applicant(s)/Patent Under

Reexamination MILLS, RANDELL L.

*A copy of this reference is not being furnished with this Office action. (See MPEP, § 707.05(a).)

Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Application/Control No. 50/62

Applicant(s)/Patent Under Reexamination MILLS, RANDELL L.

Examiner

Langel

Art Unit

Page 7 of 8

U.S. PATENT DOCUMENTS

/[*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification		
	Α	US				-	
	В	US					
	С	US					
	D	US					
	Е	US					
	F	US					
	G	US					
	н	US					
	-	US					
	J	US					
	К	US					
	L	US					
	М	US					

FOREIGN PATENT DOCUMENTS

_	- ORGENT ARENT DOGGINERTO										
*		Document Number Country Code-Number-Kind Code		Date MM-YYYY	Country	Name	Classification				
	N	-	-		· · · · · · · · · · · · · · · · · · ·						
	0	-	-								
	Р	-	-		•						
	Q	_	-								
	R	-	-								
	s	-	-								
	Т	_	-								

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
B	U	Shkedi, Z., McDonald, R. C., Breen, J. J., Maguire, S. J. and Veranth, J. (1995) Fusion Technology, vol. 28, pp. 1720-1731.
A	>	Srianand, R., Petitjean, P. and Ledoux, C. (2000) "The cosmic microwave background radiation temperature at a redshift of 2.34," Nature, vol. 408, pp. 931-935.
A	·W	Tegmark, M. and Wheeler, J. A. (2001) *100 Years of Quantum Mysteries," Scientific American, pp. 68-75.
\$	х	Tolman, R. C. (1979) The Principles Of Statistical Mechanics, Dover Publications, Inc., New York.

*A copy of this reference is not being furnished with this Office action. (See MPEP, § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No.

/

	F	Notice of References Cited			Application/Control No. Sold Applicant(s)/Patent University Reexamination MILLS, RANDELL L. Examiner Art Unit Page P						r
		nonde of Acresones	Examiner Art Unit			Art Unit	Page 8 of 8				
	*		.	U.S. PA	PATENT DOCUMENTS						
/ [*		Document Number Country Code-Number-Kind Code		Name			Classification				
	A	US									
	В	US									
	С	US			-						
	D	US									
	E	US									
	F	US				-				٠	
	G	US									
	Н	US									
	1	US									
	J	US									
	к	US									
	L	US									
	М	US				• .					
				FOREIGN	PATENT DOO	UMENTS					
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	С	ountry	Na	ıme			Classi	fication
	N										
	0										
_	Р										
<u> </u>	Q	-, -			•						
	R										
_	S	•									
	Т	-				<u> </u>					
					TENT DOCUM						
*						sher, Edition or Volu		·	-1-1-1		
A	Ū	Wheeler, J. A. and Zurek, W. H., editors (1983) Quantum theory and measurement, Princeton University Press, Princeton Jersey. (English translation of Heisenberg's 1927 Uncertainty Principle paper cited above.)							nceton, New		
	. V	••									
	w										
	х	х									

*A copy of this reference is not being furnished with this Office action. (See MPEP, § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.